

### **AMENDMENTS TO CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims**

1.- 20. (canceled)

21. (currently amended) The A wet and dry weather water disinfection system ~~of claim 1~~ comprising,

a disinfecting chemical dispenser located proximate to a storm water management infrastructure where said disinfecting chemical dispenser is configured to add a disinfection chemical into water flowing through said storm water management infrastructure;

a sensor configured to measure water characteristics attributable to said water flowing through said storm water management infrastructure;

a control unit that controls an amount of said disinfection chemical added to said water flowing through said storm water management infrastructure based on said water characteristics,

wherein said wet and dry weather water disinfection system is locatable in-line at a storm drain collection location.

22. - 53. (canceled)

54. (new) The wet and dry weather water disinfection system of claim 21 wherein said sensor to measure water characteristics is located upstream of said disinfecting chemical dispenser.

55. (new) The wet and dry weather water disinfection system of claim 21 further comprising a downstream sensor configured to measure said water characteristics.

56. (new) The wet and dry weather water disinfection system of claim 21 wherein said storm drain collection location permits water to flow through.

57. (new) A portable water disinfection system, comprising:

a disinfecting chemical dispenser adapted to be removably located adjacent to a storm water management infrastructure, said portable chemical dispenser configured to add a disinfection chemical into water flowing through said storm water management infrastructure;

a sensor configured to measure water characteristics attributable to said water flowing through said storm water management infrastructure; and

a control unit adapted to be removably connected to said disinfecting chemical dispenser, said control unit configured to control an amount of said disinfection chemical added to said water flowing through said storm water management infrastructure based on said water characteristics.

58. (new) The water disinfection system of claim 57 wherein said sensor to measure water characteristics is located inline of said disinfecting chemical dispenser.

59. (new) The water disinfection system of claim 57 further comprising a mixing chamber sensor configured to measure characteristics of water mixed with said disinfecting chemical.

60. (new) A method for upstream water disinfection, comprising the steps of:

placing a portable disinfecting chemical dispenser adjacent to a storm drain collection location, said disinfecting chemical dispenser configured to add a disinfection chemical into water flowing through said storm drain collection location;

measuring water characteristics attributable to said water flowing through said storm drain collection location through one or more sensors;

determining an amount of disinfection chemical to add to said water flowing through said storm drain collection location based on said water characteristics by a controller connected to said portable disinfecting chemical dispenser; and

adding said amount of disinfection chemical from said portable disinfecting chemical dispenser to said water flowing through said storm drain.